Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-11 cancelled.

- 12. A method for preparing 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one comprising the steps of:
- a) reacting diphenylether with an acylating agent by means of a Friedel-Crafts reaction catalyzed by a Lewis acid to produce a reaction product; and
- b) reacting the reaction product with a hydrated base, at a temperature of from about 10°C to about 50°C to produce 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one;

wherein the acylating agent is selected from the group consisting of alpha-bromoisobutyryl bromide, alpha-chloroisobutyryl chloride, and mixtures thereof.

- 13. The method of Claim 12 wherein the reaction of steps a) or b) takes place in a solvent.
- 14. The method of Claim 13 further comprising recovering the 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one as a white powder.
- 15. The method of Claim 14 wherein the 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one is recovered by a method comprising crystallization.
- 16. The method of Claim 15 wherein the Friedel-Crafts reaction of step a) is performed by:
- i) preparing a solution of the acylating agent and the diphenylether in dichloromethane, at a molar ratio of acylating agent to diphenylether of from 2.0 to 2.2, and

then adding the Lewis acid in increments to the solution to form a reaction mixture and maintaining the temperature of the reaction mixture at from about -20°C to about 20°C;

- ii) quenching the Friedel-Crafts reaction by pouring the reaction mixture into a dilute acidic water solution, separating the resultant phases into an aqueous phase and an organic phase and washing the organic phase with water or brine; and
- iii) evaporating the dichloromethane in the organic phase to form an intermediate product and then dissolving the intermediate product in a water soluble aliphatic alcohol to form the reaction product.
- 17. The method of Claim 16 wherein the aliphatic alcohol is isopropanol.
- 18. The method of Claim 16 wherein the Lewis acid is AlCl₃.
- 19. The method of Claim 17 wherein step b) is performed at a temperature of from about 15°C to about 40°C.
- 20. The method of Claim 19 wherein the hydrated base is an aqueous NaOH solution and the admixture of the hydrated base and the reaction product forms a product liquor.
- 21. The method of Claim 20 wherein the concentration of NaOH in the aqueous NaOH solution is from about 20 to about 50 percent.
- 22. The method of Claim 20 wherein the crystallization is performed by adding water to the product liquor at a ratio of from about 0.5 to about 2.0 parts by weight of water for every weight part of isopropanol, to form an isopropanol, final product, and water solution.
- 23. The method of Claim 22 further comprising cooling the isopropanol, final product, and water solution to from about 0° to about 10°C; and collecting 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one by filtration in the form of a filtrate and drying the filtrate at from about 20° to about 60°C.

- 24. The method of Claim 11 wherein the Friedel-Crafts reaction of step a) is performed by:
- i) preparing a solution of the acylating agent and the diphenylether in dichloromethane, at a molar ratio of acylating agent to diphenylether of from 2.0 to 2.2, and then adding the Lewis acid in increments to the solution to form a reaction mixture and maintaining the temperature of the reaction mixture at from about -20°C to about 20°C;
- ii) quenching the Friedel-Crafts reaction by pouring the reaction mixture into a dilute acidic water solution, separating the resultant phases into an aqueous phase and an organic phase, and then washing the organic phase with water or brine to form a biphasic admixture; and
- iii. adding a phase transfer catalyst to the biphasic admixture.
- 25. The method of Claim 24 further comprising using the biphasic admixture as the reaction product in step b) and then recovering the 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one by a method comprising crystallization wherein the crystallization is performed by partial distillation of the dichloromethane from the biphasic mixture and then cooling the biphasic mixture; or through partial evaporation of the dichloromethane from the biphasic admixture and then dilution of the biphasic admixture with lipophilic solvents.
- 26. A white solid photoinitiator composition comprising 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one wherein the 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)-phenoxy]-phenyl}-2-methyl-propan-1-one is a powder having a melting point of from 96° to 99°C.
- 27. A photo-crosslinkable system comprising the product of dissolving the white solid photoinitiator composition of Claim 26 in at least one ethylenically unsaturated monomer and/or ethylenically unsaturated oligomer at a temperature of from about 20° to about 60°C.
- 28. The while photo-crosslinkable system of Claim 27 wherein the composition of Claim 15 is present at a concentration of from about 0.01 to about 20 percent by weight.

29. The photo-crosslinkable system of Claim 28 wherein the composition of Claim 15 is present at a concentration of from about 0.5 to about 5 percent by weight.

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- 30. A method for coating a substrate comprising applying the photo-crosslinkable system of Claim 27 to a substrate and photo-polymerizing the photo-crosslinkable system with a light source, the light source having emission bands in the UV-visible region.
- 31. The method of Claim 30 wherein the substrate is selected from the group consisting of wood, paper, cardboard, plastic, metal and mixtures thereof.